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APPLICATION NO). I	TILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/754,829		01/03/2001	Mark J. Purdy	4865/120	4428		
757	7590	09/25/2003		•			
	BRINKS HOFER GILSON & LIONE P.O. BOX 10395				EXAMINER		
CHICAGO, IL 60611				CHEN, BRET P			
				ART UNIT	PAPER NUMBER		
				1762			
				DATE MAILED: 09/25/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

Application No. Applicant(s) 09/754,829

Mark J. Purdy et al.

Examiner

Bret Chen

Art Unit

	The MAILING DATE of this communicate	ion anno	Bret Chen	1762	
Perio	The MAILING DATE of this communicated for Reply	vii appear	s on the cover sheet with the corre	spondence addr	
mail - If th - If NO - Failu	EMAILING DATE OF THIS COMMUNICATION CATION COMMUNICATION COMMUNICATION CATION C	PLY IS SE DN. 1.136 (a). In 1 reply within the	TO EXPIRE 3 MONTI	H(S) FROM after SIX (6) MONTH	
earne	torir adjustment. See 37 CFR 1 704/L	ailing date of	this communication, even if timely filed	.C. § 133).	nication.
			recent turing filed, may rec	luce any	
1) 📗	Responsive to communication(s) filed on				
2a) □	2b) 🛭	This act	ion is non-final.		·
3)	Since this application is in access				
Disposi	closed in accordance with the practice untion of Claims	der <i>Ex pai</i>	te Quavie, 1935 CD, 11, 450 c	ution as to the	merits is
	or Claiming			i.G. 213.	
	Claim(s) 1-28, 53-70, and 84-90		is/are r	andi!	
4 	a) Of the above, claim(s)		is/are p	pending in the a	ipplication.
5) 🗌	Claim(s)		is/are	withdrawn fron	n consideration
6) 💢	Claim(s) 1-28, 53-70, and 84-90		is,	are allowed.	•
	Claim(s)			are rejected.	
8) 🗌 (Claims ion Papers The specification is objected to the		is/	are objected to	
Applicati	on Papers		are subject to restrictio	n and/or election	n requirement
9) 📙 7	The specification is objected to by the Exam	inor			o o o o o o o o o o o o o o o o o o o
10) 🗌 🗍	The drawing(s) filed on	::::::::::::::::::::::::::::::::::::::			
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11/[] [he proposed drawing correction filed on	and didy	vilig(s) be held in abeyance. See 37	7 CFR 1.85(a).	
ł	f approved, corrected drawings are required:		is: a)∟ approved b)[disapproved !	by the Examine
, - 1,	the path or declaration is objected to but the	Evamina	nis Office action.		
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13)LI A	cknowledgement is made of a claim for to-	eian priori	ty under 35 H o. o. a		
a) L	All b)☐ Some* c)☐ None of:	0	(d) (d) (a)-(d)	or (f).	
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*See ti	application from the International he attached detailed Office action for a list knowledgement is made of a claim for deal	Bureau (F	CT Rule 17.2(a)).	National Stage	
4) □ Acl	knowledgement is made of a claim for dom he translation of the foreign language provi	estic prior	titled copies not received.		
a) LJ Ti	he translation of the foreign language provi	sional and	ity under 35 U.S.C. § 119(e).		
5) Ack	(nowledgement is made of a claim for dome	estic prior	ty under 25 th 0.00		
tachment(s)	References Cited (PTO-892)	PIO	5 U.S.C. §§ 120 and/	or 121.	
Notice of	Draftsperson's Patent Drawing Review (PTO-948)	4)	Interview Summary (PTO-413) Paper No(s).		
X Informatio	in Disclosure Statement(s) (PTO-1449) Paper No(s)5	5)	Notice of Informal Patent Application (PTO-152		
	5	6) 🗌	······································	1	1

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DETAILED ACTION

Claims 1-28, 53-70, and 84-90 are pending in this application, which is a CON of Serial Number 08/881,398, now abandoned, which is a CON of Serial Number 08/340510 filed November 16, 1994, now abandoned.

The preliminary amendment dated 1/3/01 canceling claims 29-52 and 71-83 has been entered.

Specification

Applicant is reminded of the proper content of an abstract of the disclosure. 1.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making,
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

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Extensive mechanical and design details of apparatus should not be given.

It is noted that the claimed invention is directed to a method. The examiner suggests amending the abstract to reflect same.

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

It is noted that the claimed invention is directed solely to a method. The examiner suggests amending the title to reflect same.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-28, 53-70, and 84-90 are rejected under 35 U.S.C. 102(b) based upon a public use or sale of the invention. The Declaration of William Walthall filed February 23, 1998 discloses that BF Goodrich Inc. was negotiating with Boeing to use the 35 heat sinks made by the present invention for filling orders (i.e. for sale) from the airlines for replacement parts on September 27, 1993 and November 16, 1993 (see paragraph 8 and Tab A) which are more than one year before the effective date of the US Application (filing date November 16, 1994). The

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negotiation activity of the BF Goodrich Inc. constitutes an "on sale" bar under 35 U.S.C. 102(b). It is noted that a rejected or unreceived offer for sale is enough to bar a patent. The examiner's position is supported by case law decisions: 221 USPQ 561 (CAFC 1984), 33 USPQ 2d 1512 (CAFC 1995), and 226 USPQ 1 (CAFC 1985).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-28, 53-70, 84-90 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bentson et al. (5,298,311). Bentson discloses a method of forming carbon/carbon composites by depositing a plurality of layers by CVI/CVD (col.2 lines 53-67). The reference clearly teaches that densification can be accomplished by CVD or CVI (col.1 lines 31-34). A first matrix (col.3 lines 16-26) and a second matrix is taught (col.4 lines 31-59). However, the reference remains silent on the bulk density gain.

It is noted that the reference clearly teaches densification by CVD/CVI. The degree to which the densification achieves is not taught. One skilled in the art would realize that this can be varied depending on the final desired characteristics and that the greater the densification, the

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increased cost would occur. Hence, it would have been obvious to the skilled artisan to obtain a specific densification with the expectation of balancing process characteristics and process costs.

The limitation of dependent claims 2-28, 53-70, 84-90 have been addressed above.

Hecht (5,705,008) and Rocher et al. (5,476,685) have been provided for additional information.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321© may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-28, 53-70, 84-90 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 14-26 of U.S. Patent No. 6,109,209. Although the conflicting claims are not identical, they are not patentably distinct from each other because sensing a gas temperature is an obvious variation.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bret Chen whose telephone number is (703) 308-3809. The examiner can normally be reached on Monday through Friday from 10:00 am to 7:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive Beck, can be reached on (703) 308-2333. The fax phone number for this Group is (703) 872-9310. Amendment After Finals should be faxed to (703) 872-9311.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

bc September 20, 2003

> BRET CHEN PRIMARY EXAMINER